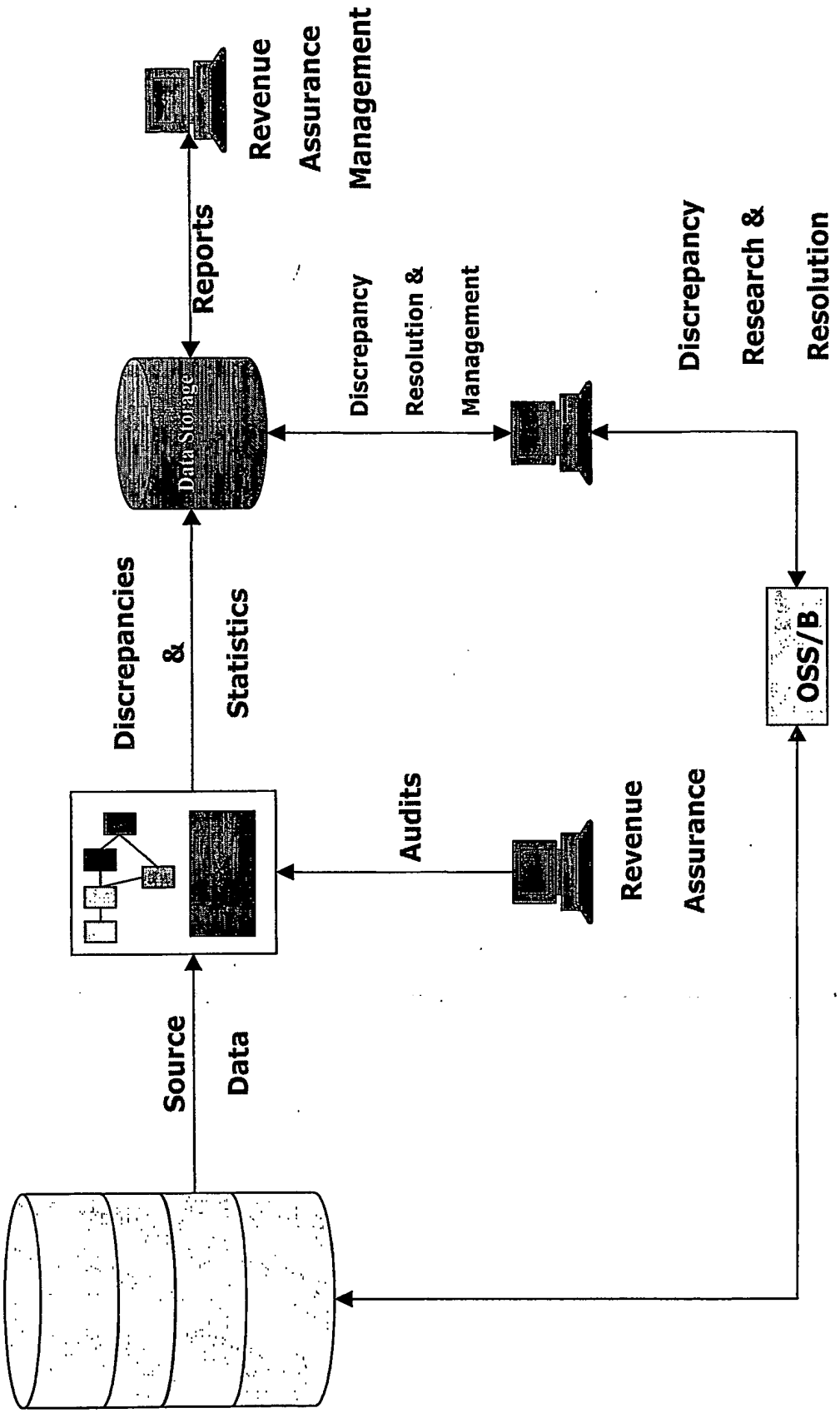

Revenue Assurance Management
Reports
Data Storage
Discrepancy Resolution & Management
Discrepancy Research & Resolution
OSS/B
Discrepancies & Statistics
Audits
Revenue Assurance
Source Data

Fig. 1

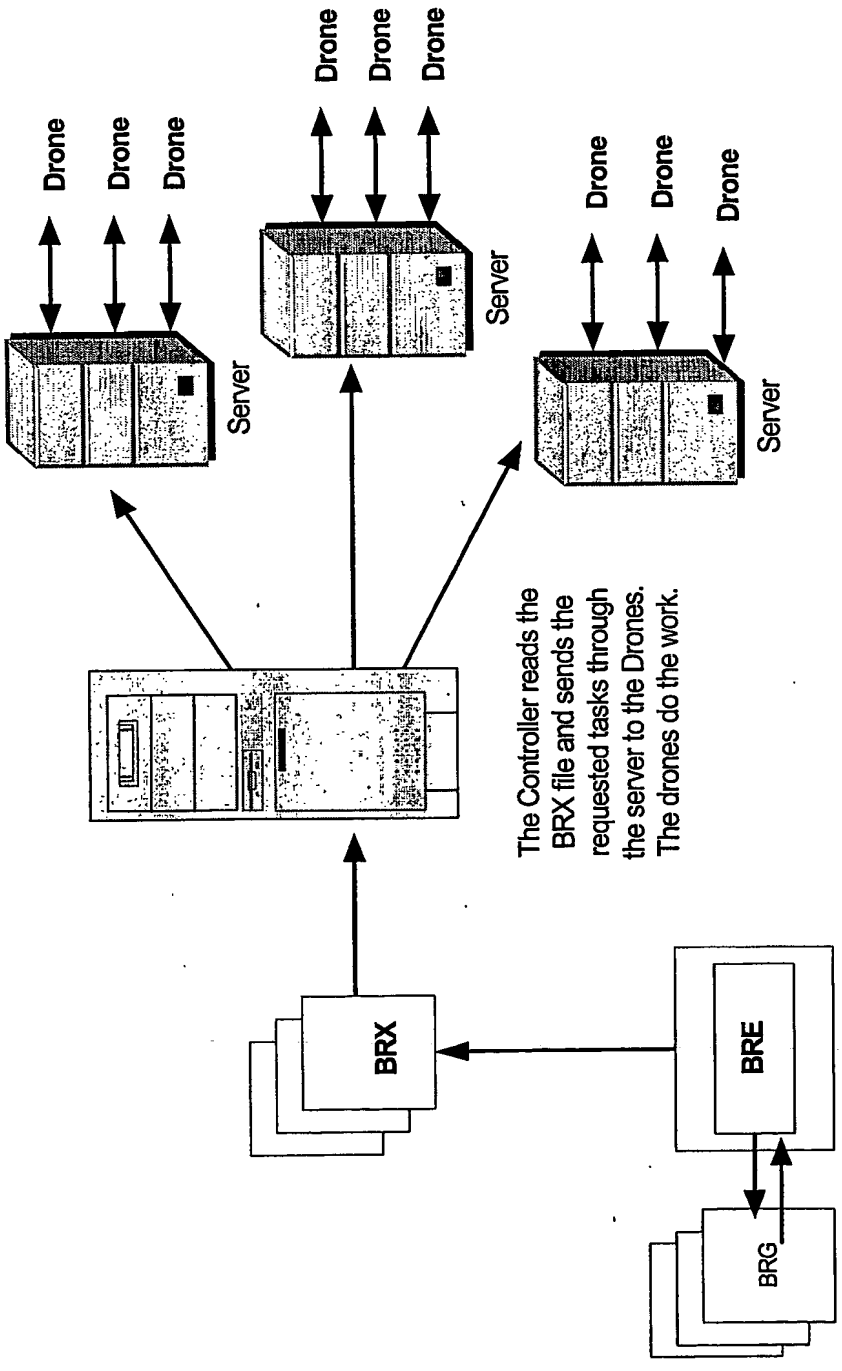

Drone
Drone
Drone
Server
Drone
Drone
Drone
Server
Drone
Drone
Drone
Server
The Controller reads the BRX file and sends the requested tasks through the server to the Drones. The drones do the work.
BRX
BRE
BRG
The Business Rule Graph (BRG) file is created using the Business Rule Editor (BRE), an authoring tool which also can act as a Controller.

Fig. 2

Fig. 3

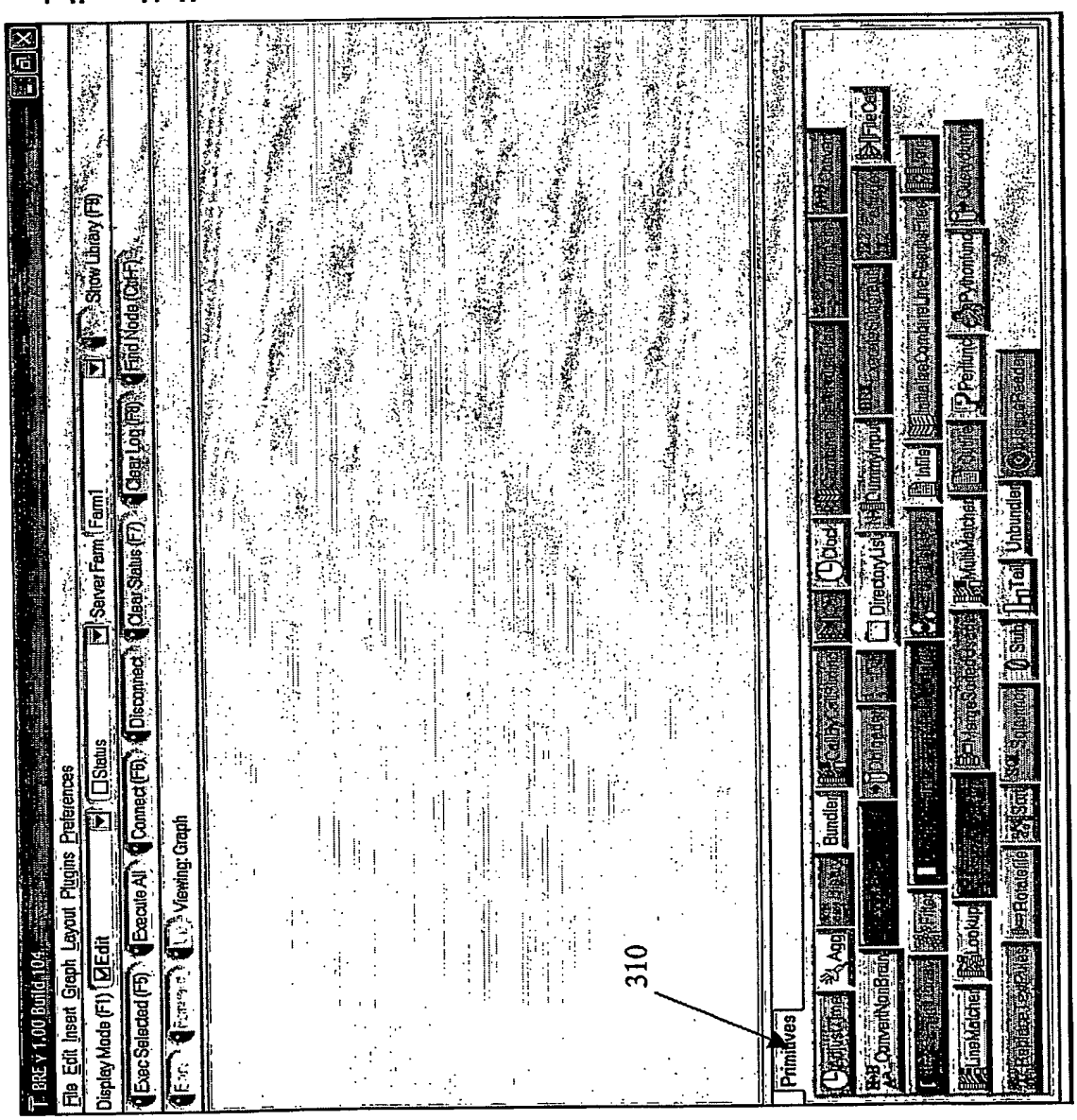

Application Menus
BRE Toolbar
Graph Drill Down
Palette: (placement and/or arranging of nodes for implementing processes/rules for data validation via a plurality of nodes (e.g., "BRG")
Node Libraries
310

Fig. 4

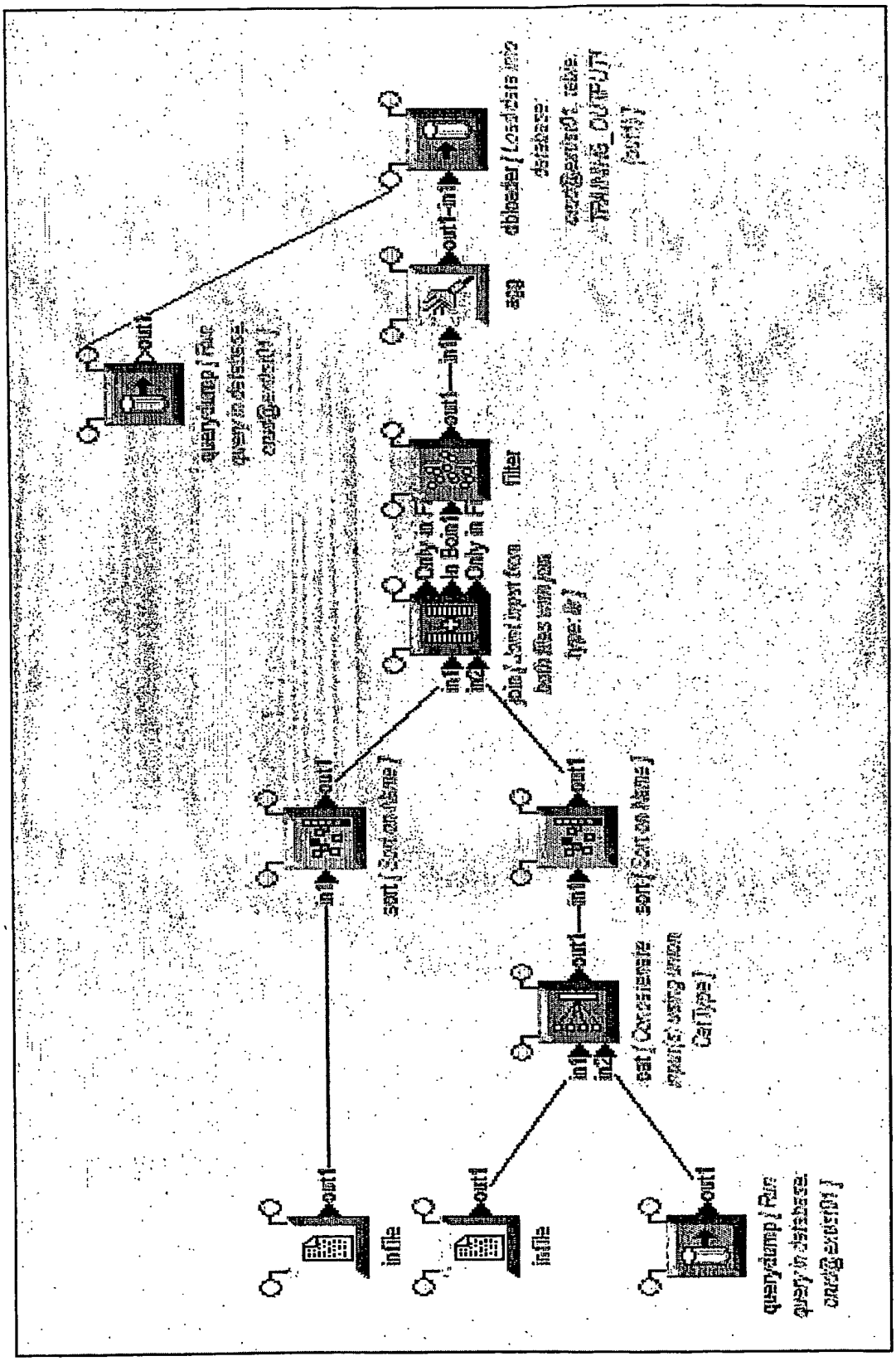

queryDump / Run query in database configExample1 /
out1
in1
out1
dbloader / Load data into database
out1
in1
filter
Only in Fi
In Both
Only in Fi
in1
in2
join / Load Import from both files with join type: fo /
out1
sort / Sort on Name /
out1
in1
sort / Sort on Name /
in1
in2
out1
out1
out1
inFile
inFile
queryDump / Run query in database configExample1 /

Fig. 5

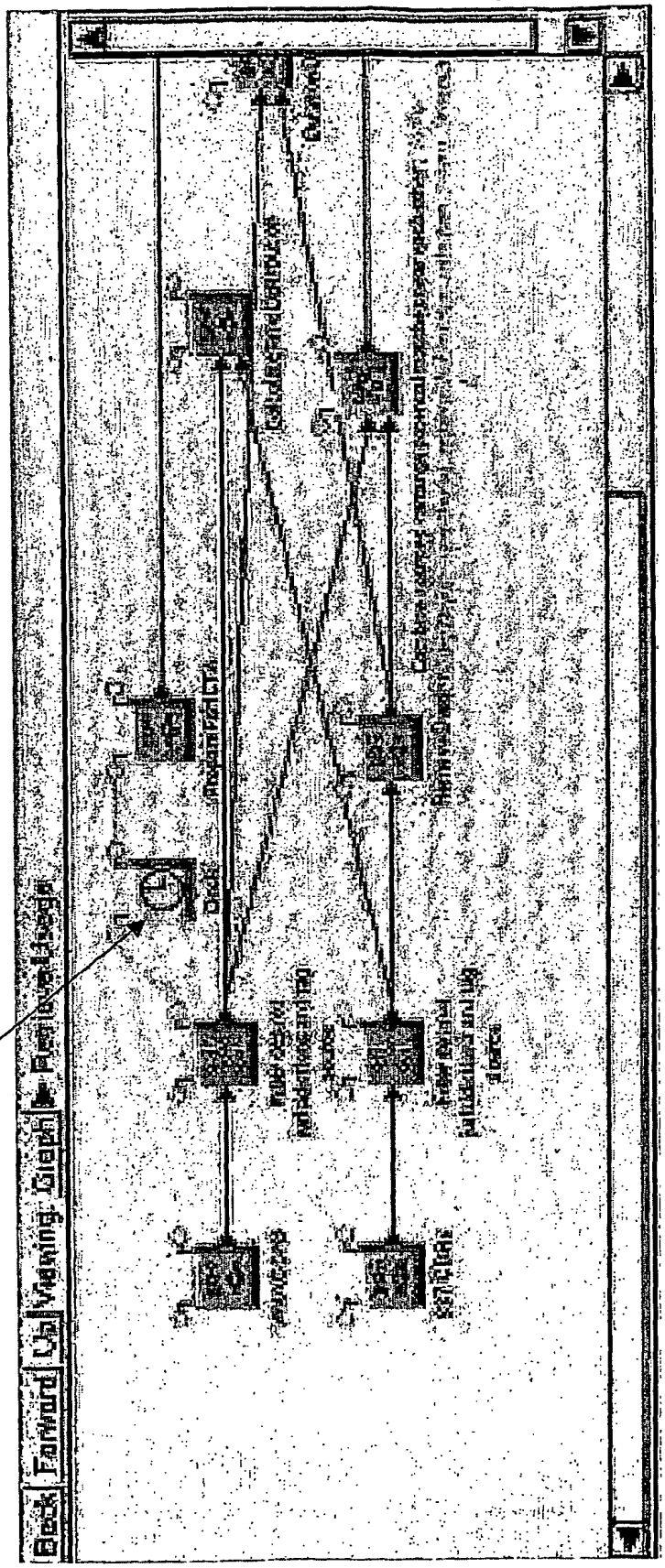


Fig. 6

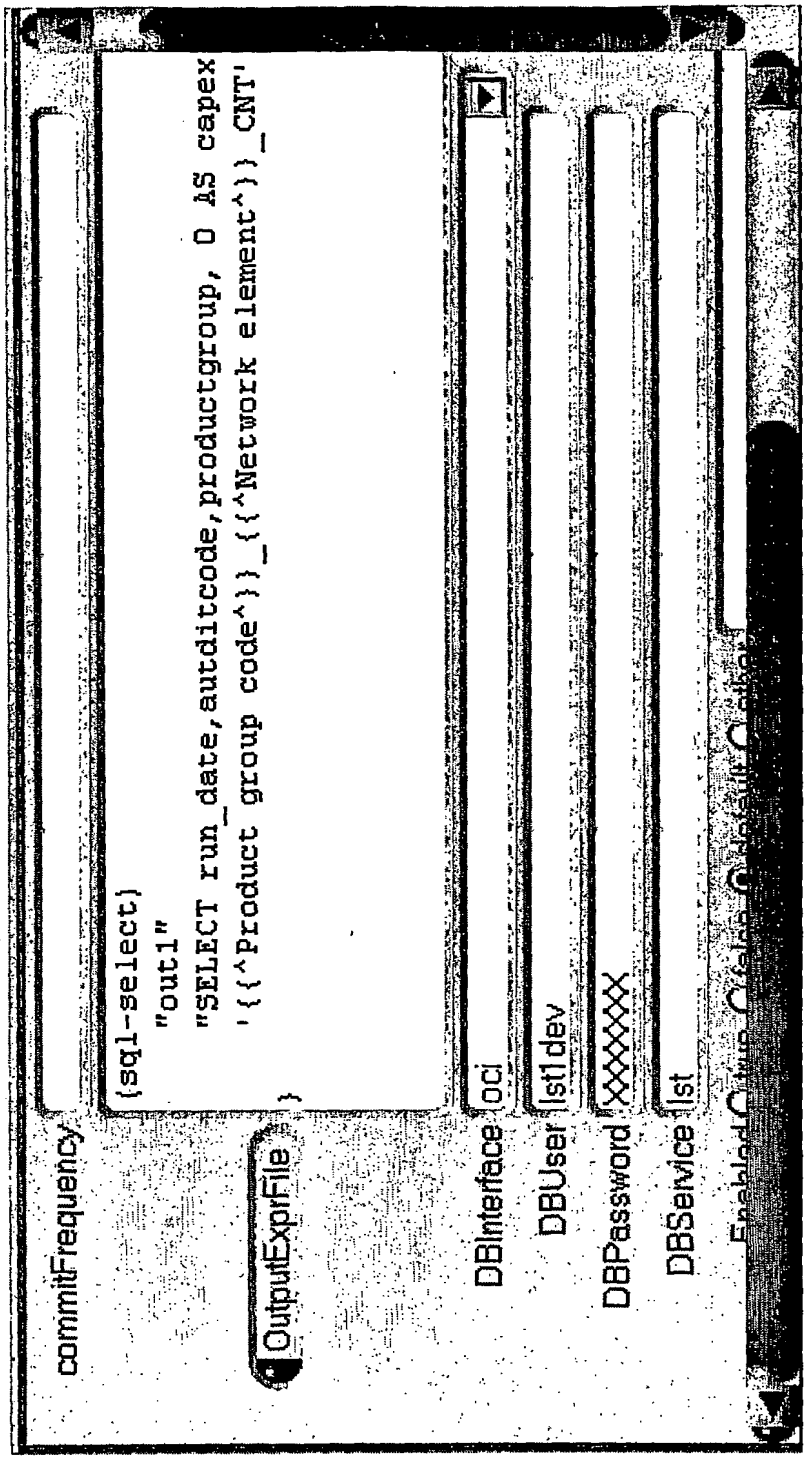

commitFrequency
(sql-select)
"out1"
"SELECT run_date,autditcode,productgroup, 0 AS capex
'{{^Product group code^}}_{{^Network element^}}_CNT'
OutputExprFile
DBInterface
oci
DBUser
lst1dev
DBPassword
DBService
lst

Fig. 7

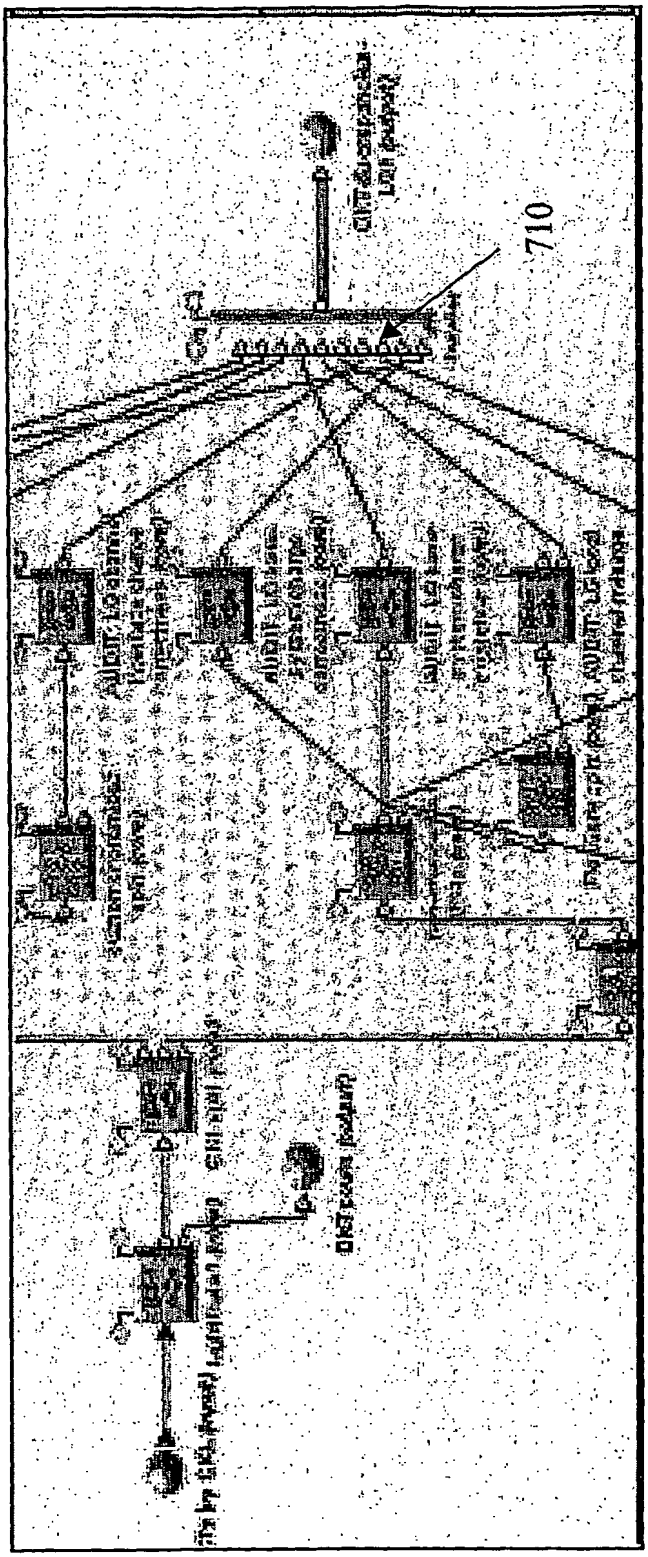


Fig. 8

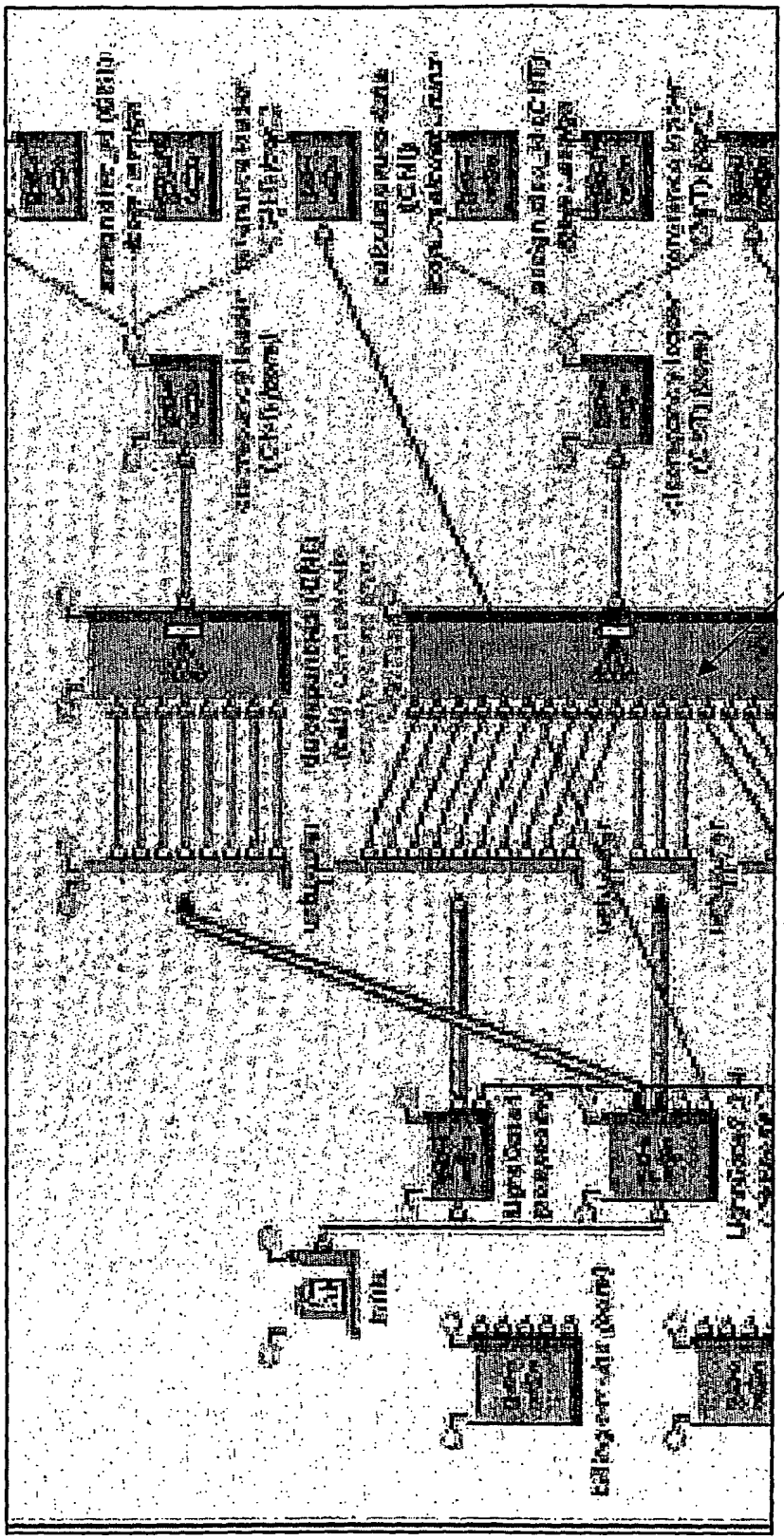


Fig. 9

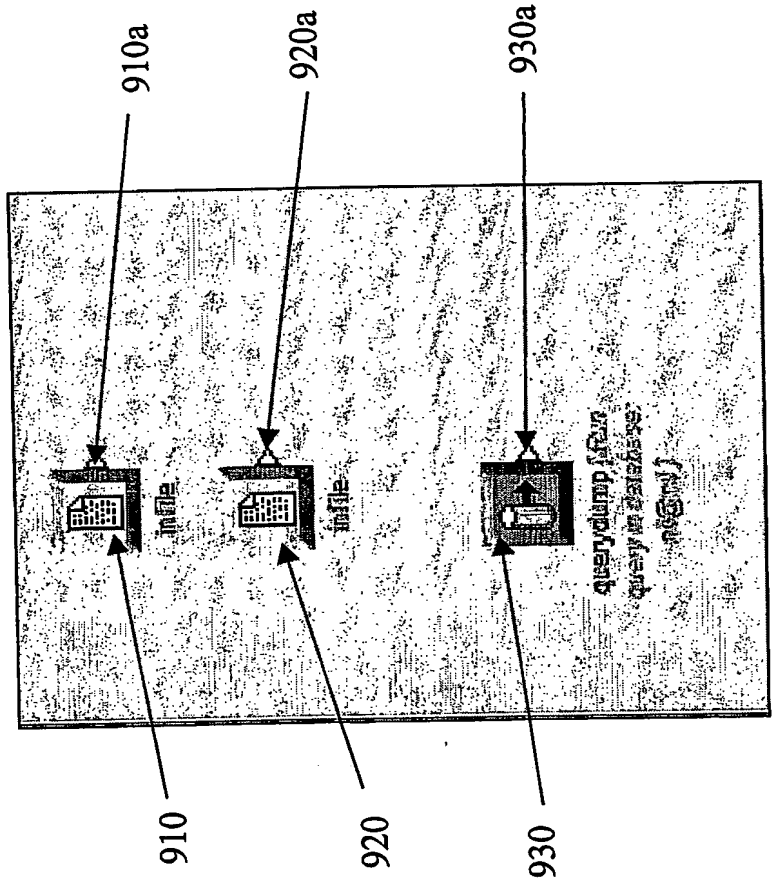


Fig. 10

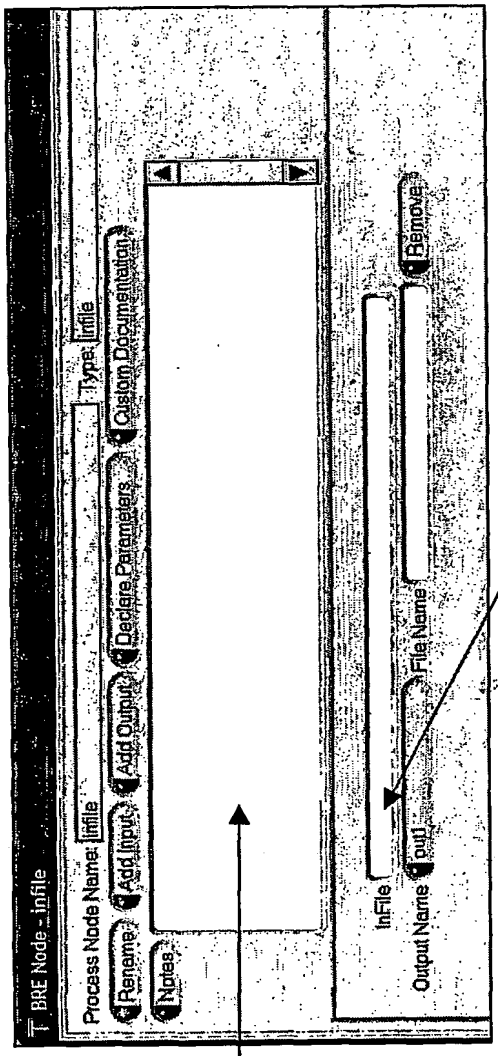

BRE Node - inFile
Process Node Name: inFile
Type: inFile
Rename
Add Input
Add Output
Declare Parameters
Custom Documentation
Notes
Remove
File Name
InFile
Output Name
out
1010
1020

Fig. 11

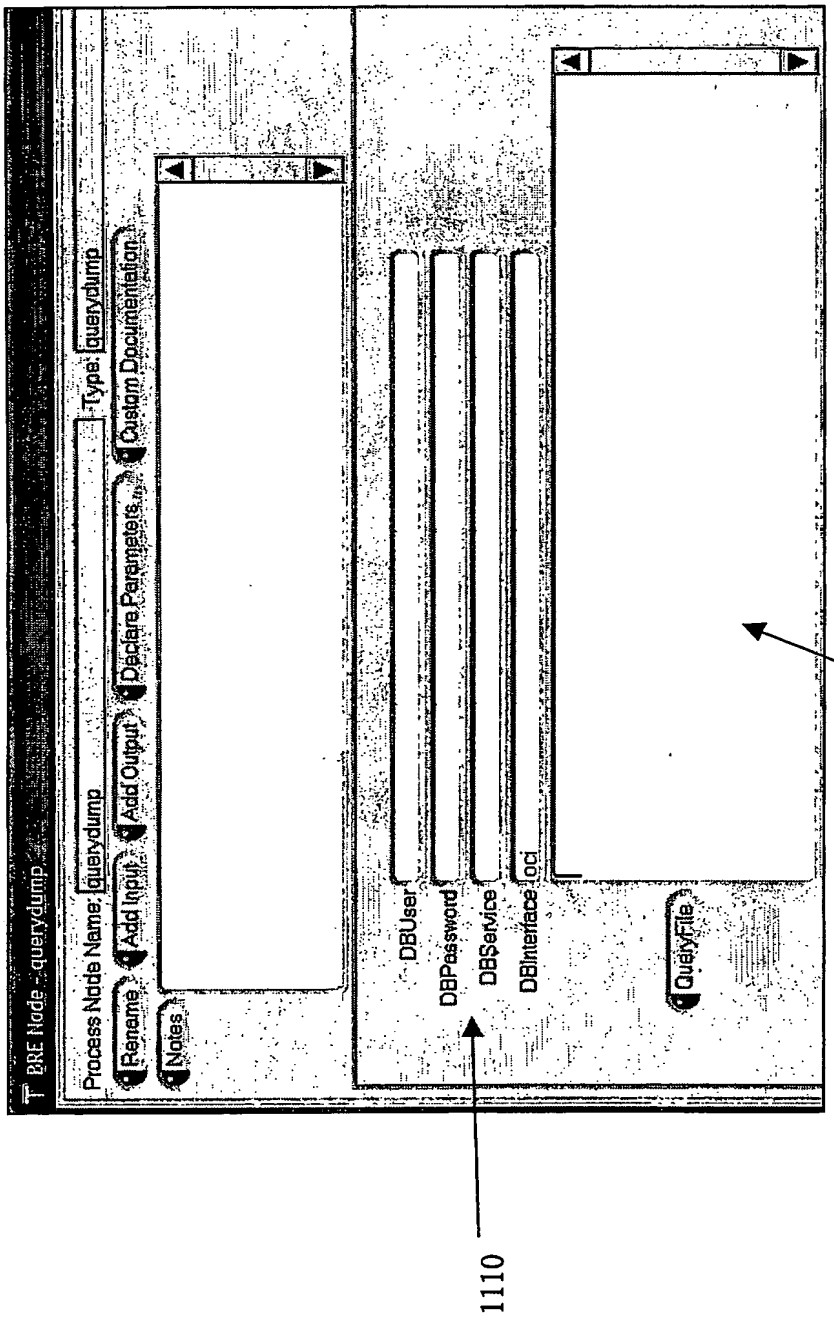

BRE Node - querydump
Process Node Name: querydump
Type: querydump
Rename
Add Input
Add Output
Declare Parameters
Custom Documentation
Notes
DBUser
DBPassword
DBService
DBInterface
oci
QueryFile
1110
1120

Fig. 12

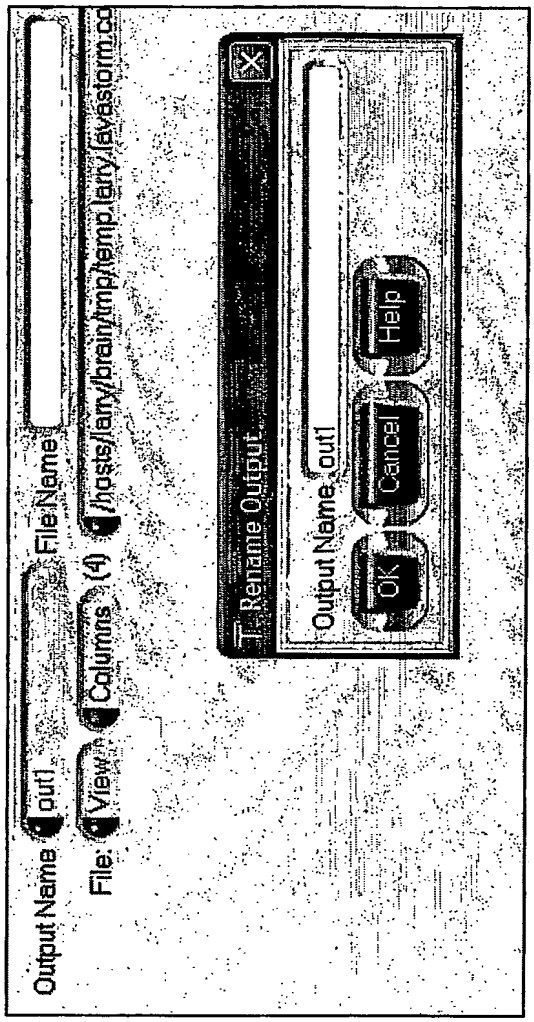

Output Name
out1
File Name
File:
View
Columns
(4)
/hosts/larry/brain/tmp/temp.larry/avastorm.co
Rename Output
Output Name
out1
OK
Cancel
Help

Fig. 13

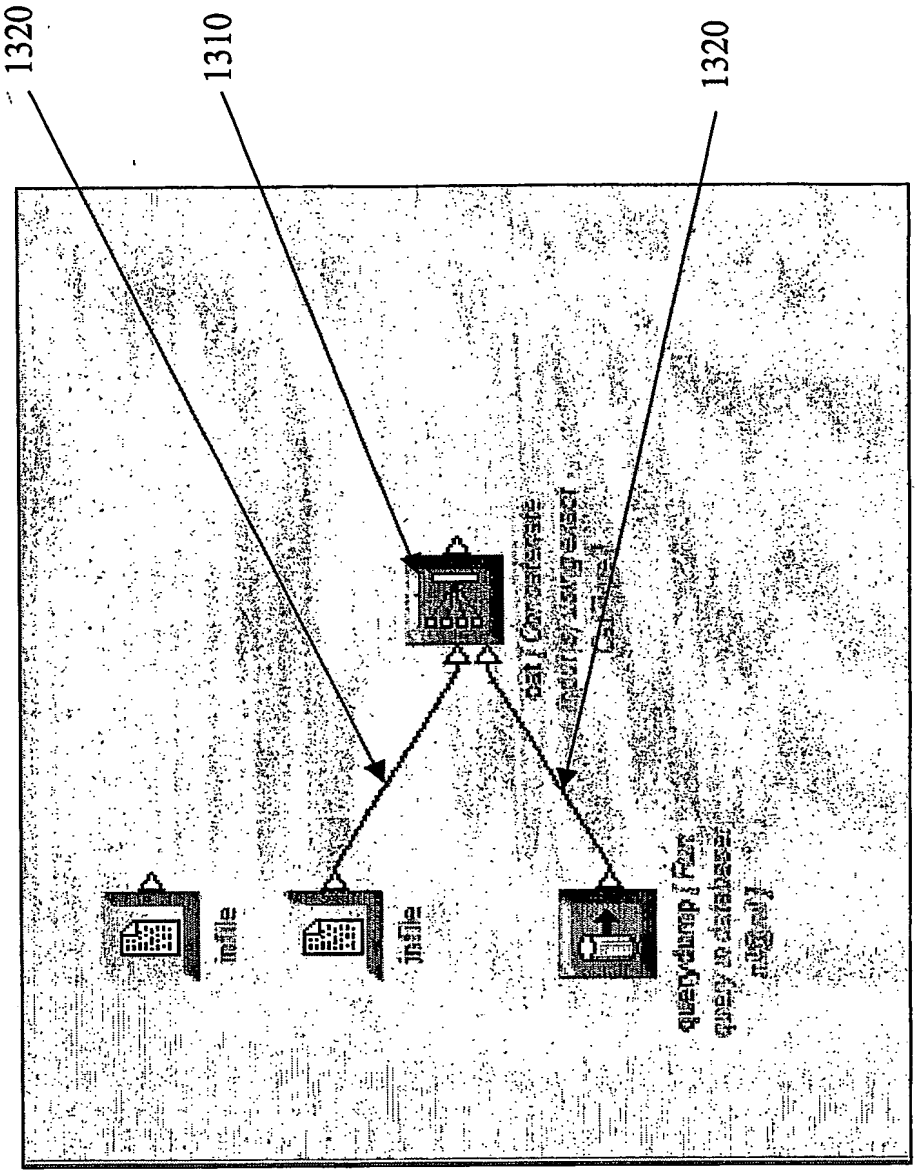


Fig. 14

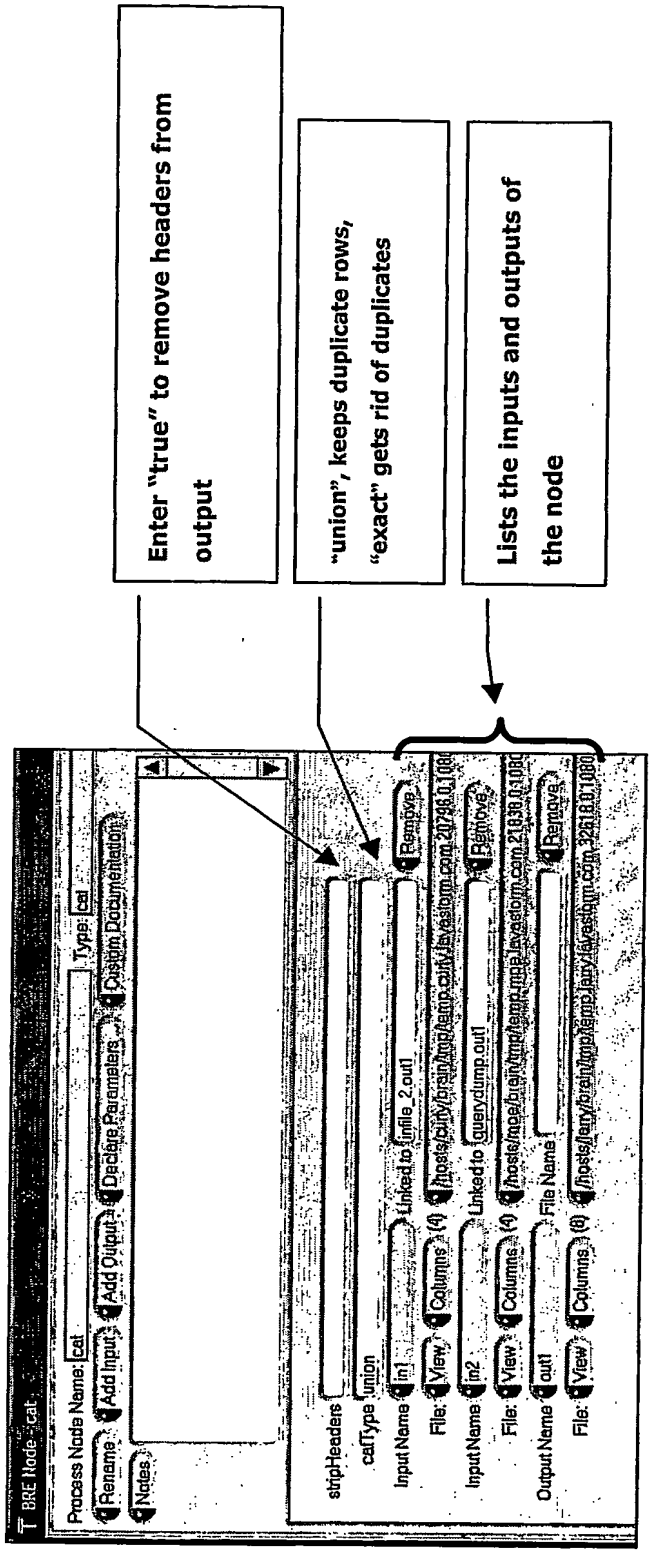

Enter "true" to remove headers from output
"union", keeps duplicate rows, "exact" gets rid of duplicates
Lists the inputs and outputs of the node
BRE Node: cat
Process Node Name: cat
Type: cat
Rename
Add Input
Add Output
Declare Parameters
Custom Documentation
Notes
stripHeaders
catType
union
Input Name
in1
Linked to
infile_2.out1
File:
View
Columns (4)
Remove
/hosts/dirty/brain/tmp/Aamp.out/Javastorm.com.20798.0.108
Input Name
in2
Linked to
query.dump.out1
File:
View
Columns (4)
Remove
/hosts/moe/brain/tmp/Aamp.moe/Javastorm.com.21638.0.108
Output Name
out1
File Name
File:
View
Columns (8)
Remove
/hosts/larry/brain/tmp/Aamp.larry/Javastorm.com.32618.0.1000

Fig. 15

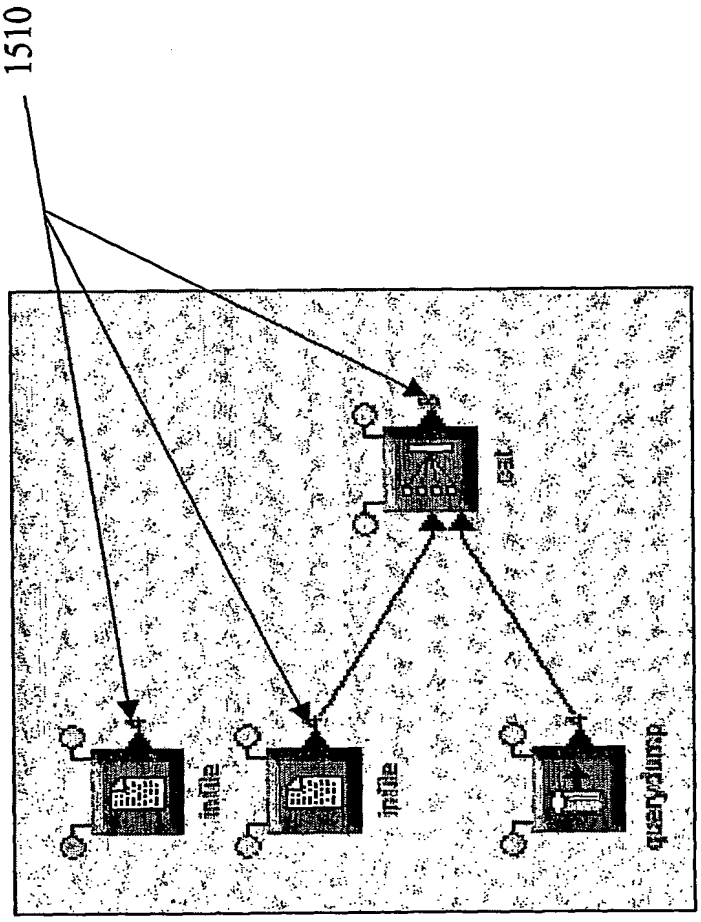
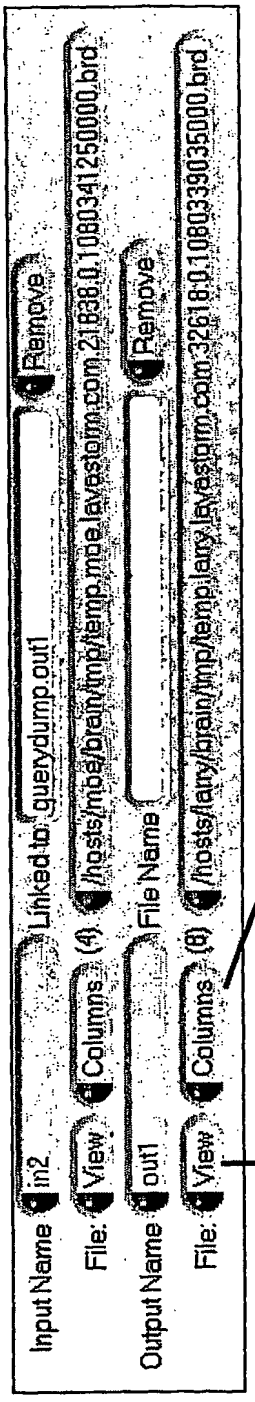


Fig. 16A



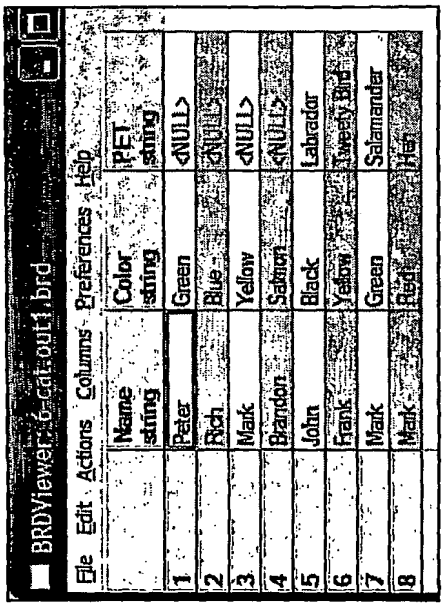


Fig. 16B

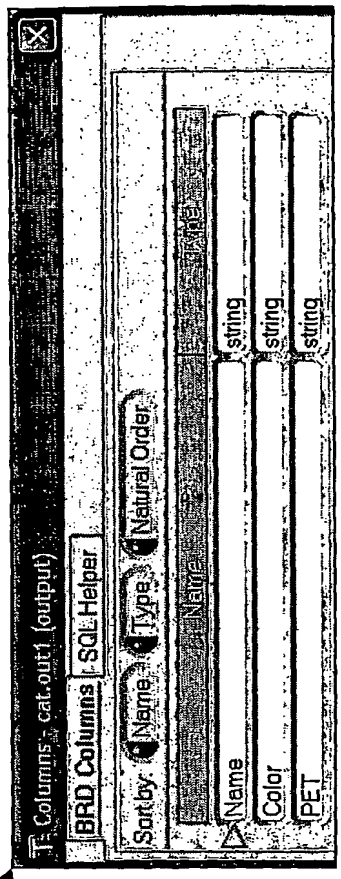


Fig. 16C

Fig. 17

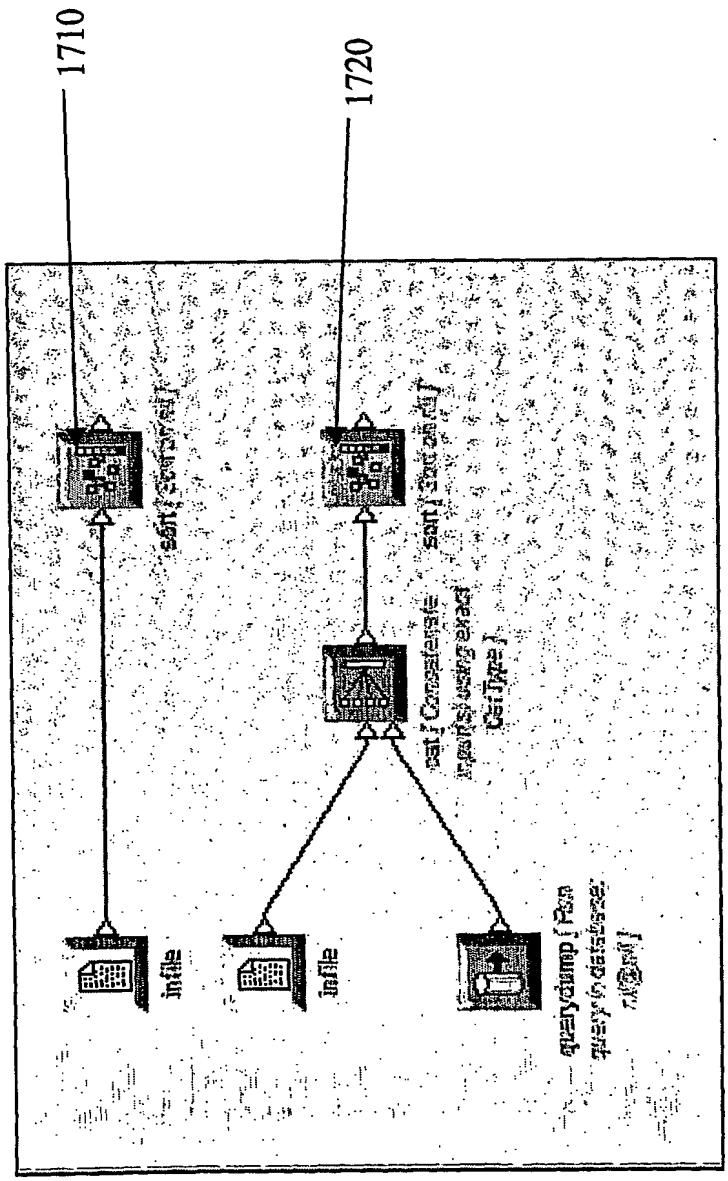


Fig. 18

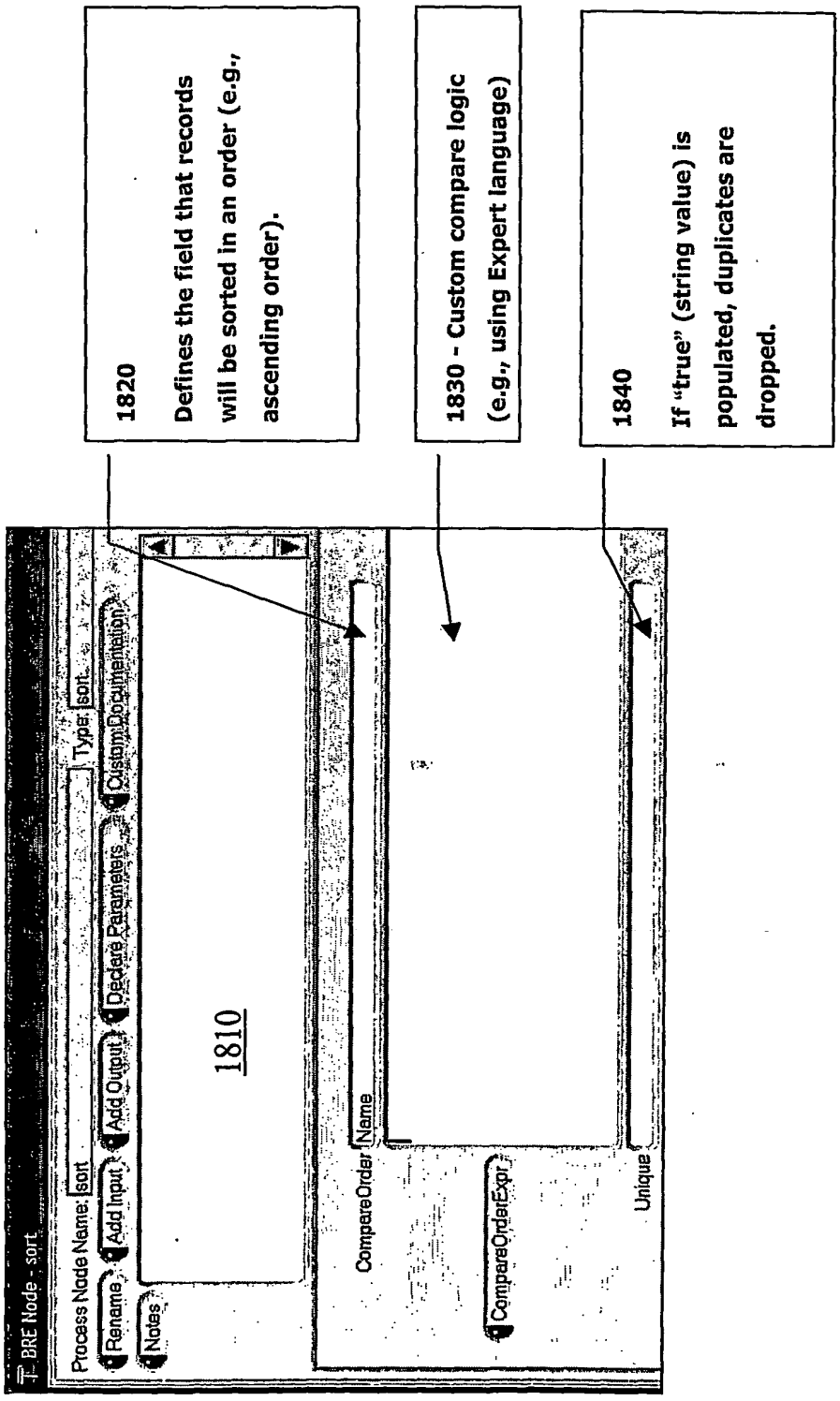

1820
Defines the field that records will be sorted in an order (e.g., ascending order).
1830 - Custom compare logic (e.g., using Expert language)
1840
If "true" (string value) is populated, duplicates are dropped.
BRE Node - sort
Process Node Name: sort
Type: sort
Rename
Add Input
Add Output
Declare Parameters
Custom Documentation
Notes
1810
CompareOrder
Name
CompareOrderExpr
Unique

Fig. 19

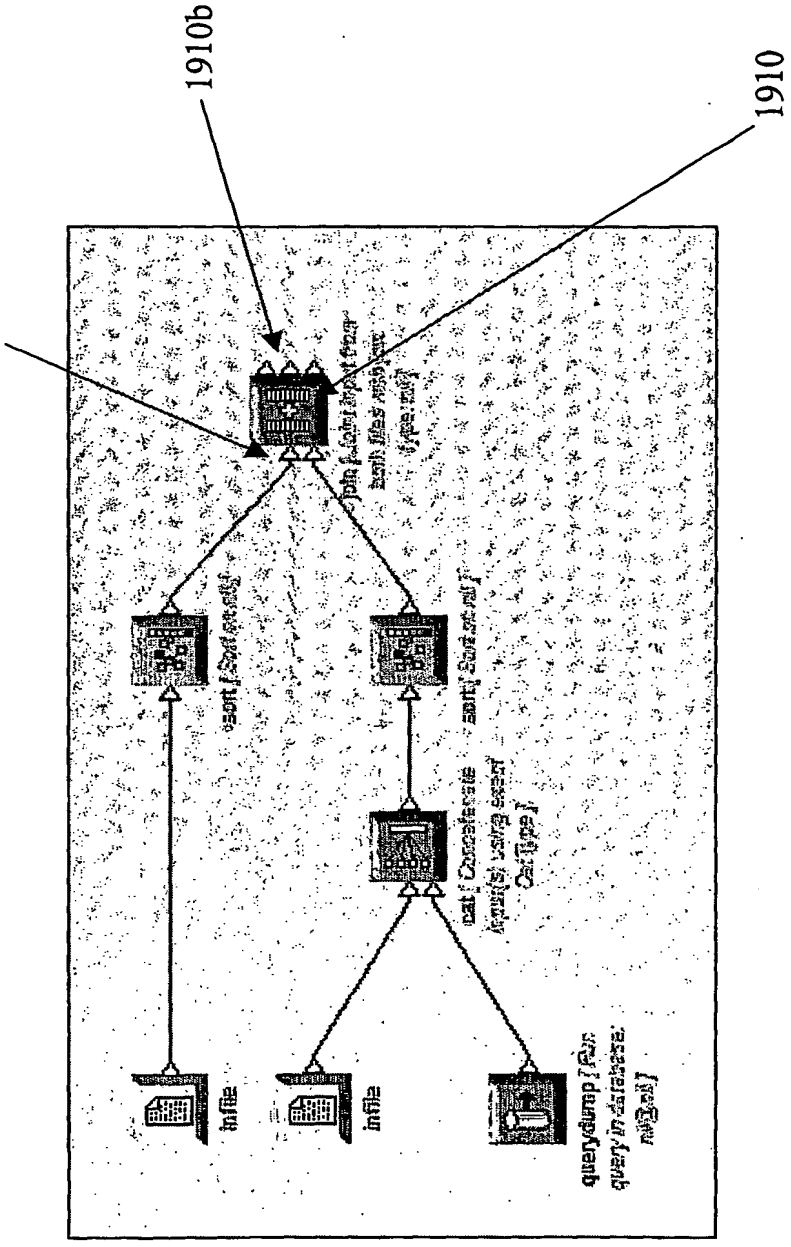

1910b
1910
1910a
infile
infile
querydump [-f
query in database
mysql]

Fig. 20

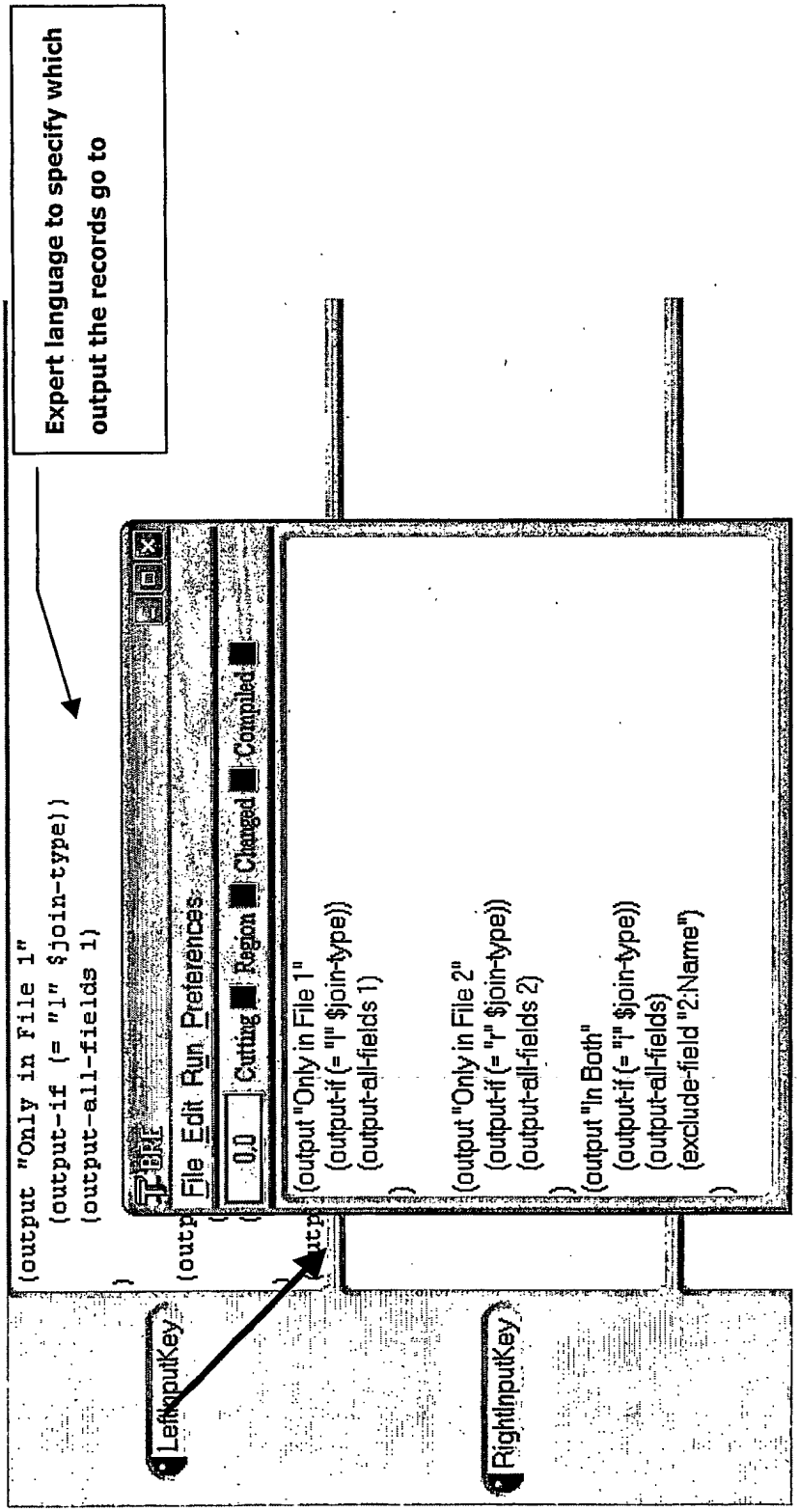

Expert language to specify which output the records go to
(output "Only in File 1"
(output-if (= "l" $join-type))
(output-all-fields 1)
)
File Edit Run Preferences
Cutting
Region
Changed
Compiled
(output "Only in File 1"
(output-if (= "l" $join-type))
(output-all-fields 1)
)
(output "Only in File 2"
(output-if (= "r" $join-type))
(output-all-fields 2)
)
(output "In Both"
(output-if (= "i" $join-type))
(output-all-fields)
(exclude-field "2:Name")
)
LeftInputKey
RightInputKey

Fig. 21

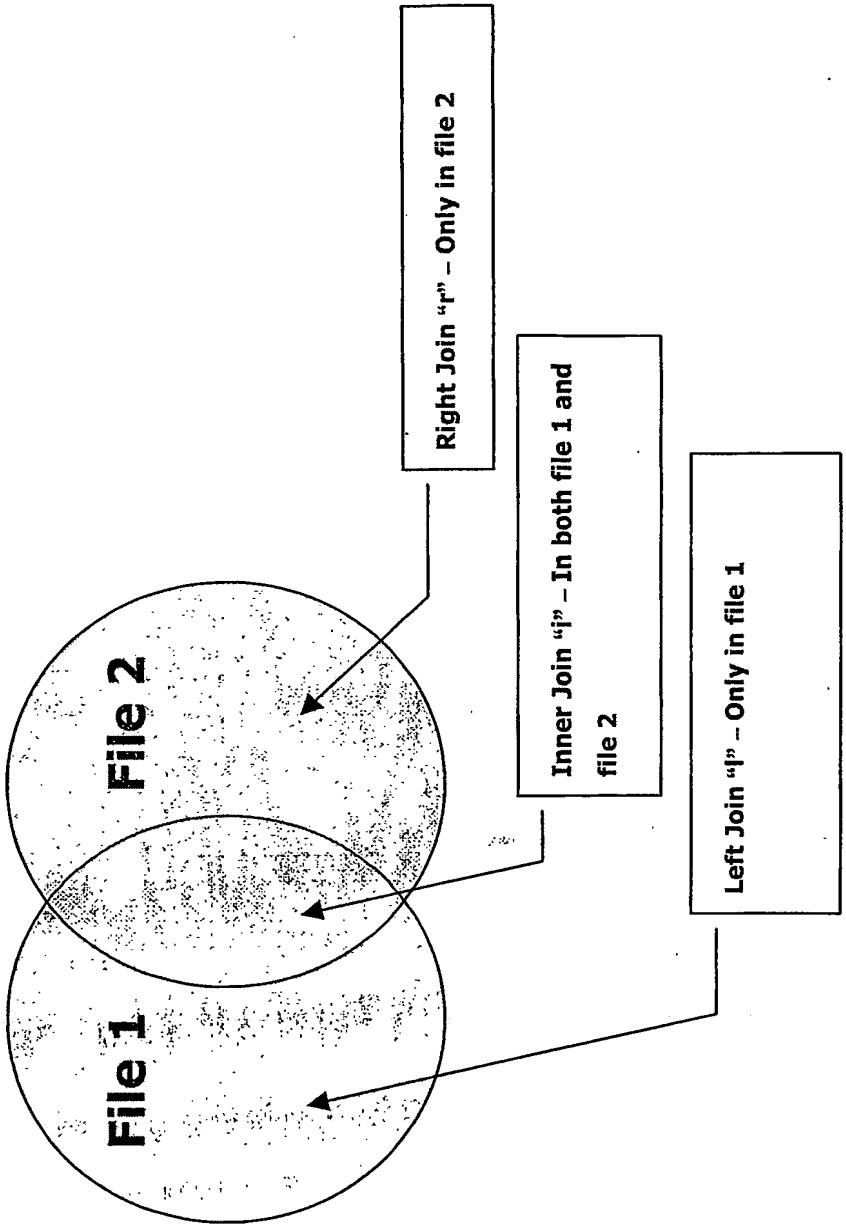

Right Join "r" – Only in file 2
Inner Join "i" – In both file 1 and file 2
Left Join "l" – Only in file 1
File 2
File 1

Fig. 22

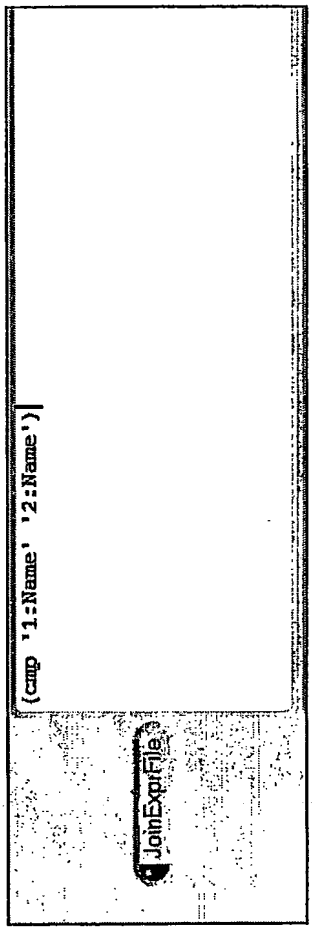

(cmp '1:Name' '2:Name')
JoinExprFile

Fig. 23

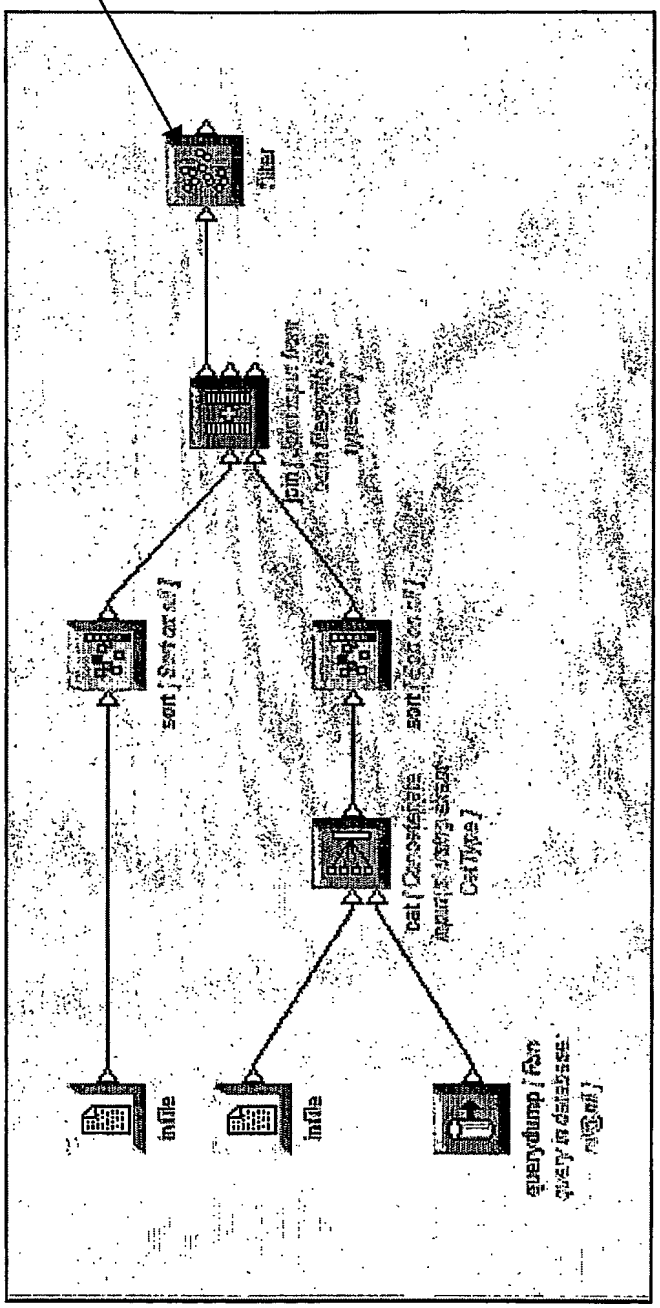

2310
filter
sort
sort
cat
cat
infile
infile
querydump

Fig. 24

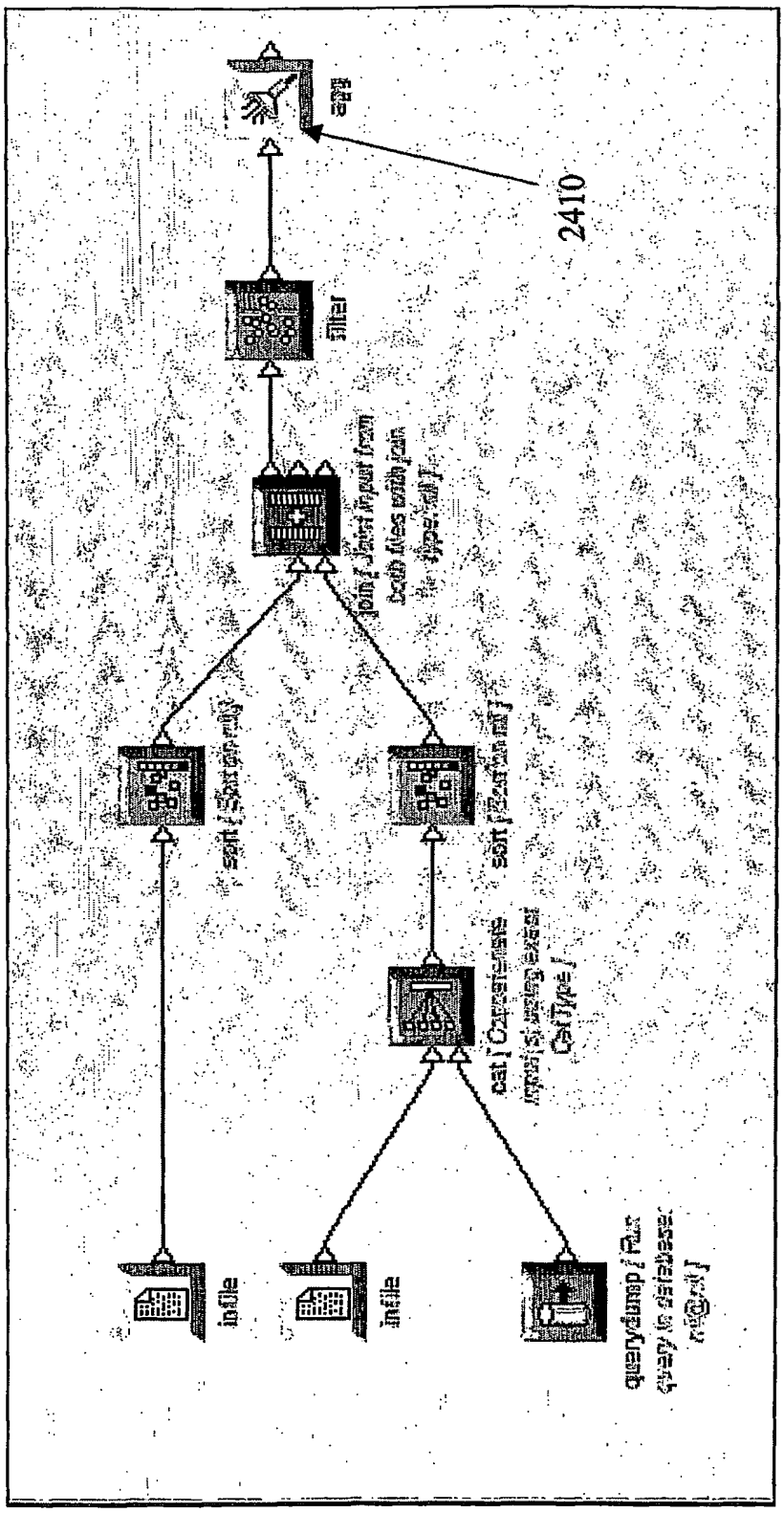


Fig. 25

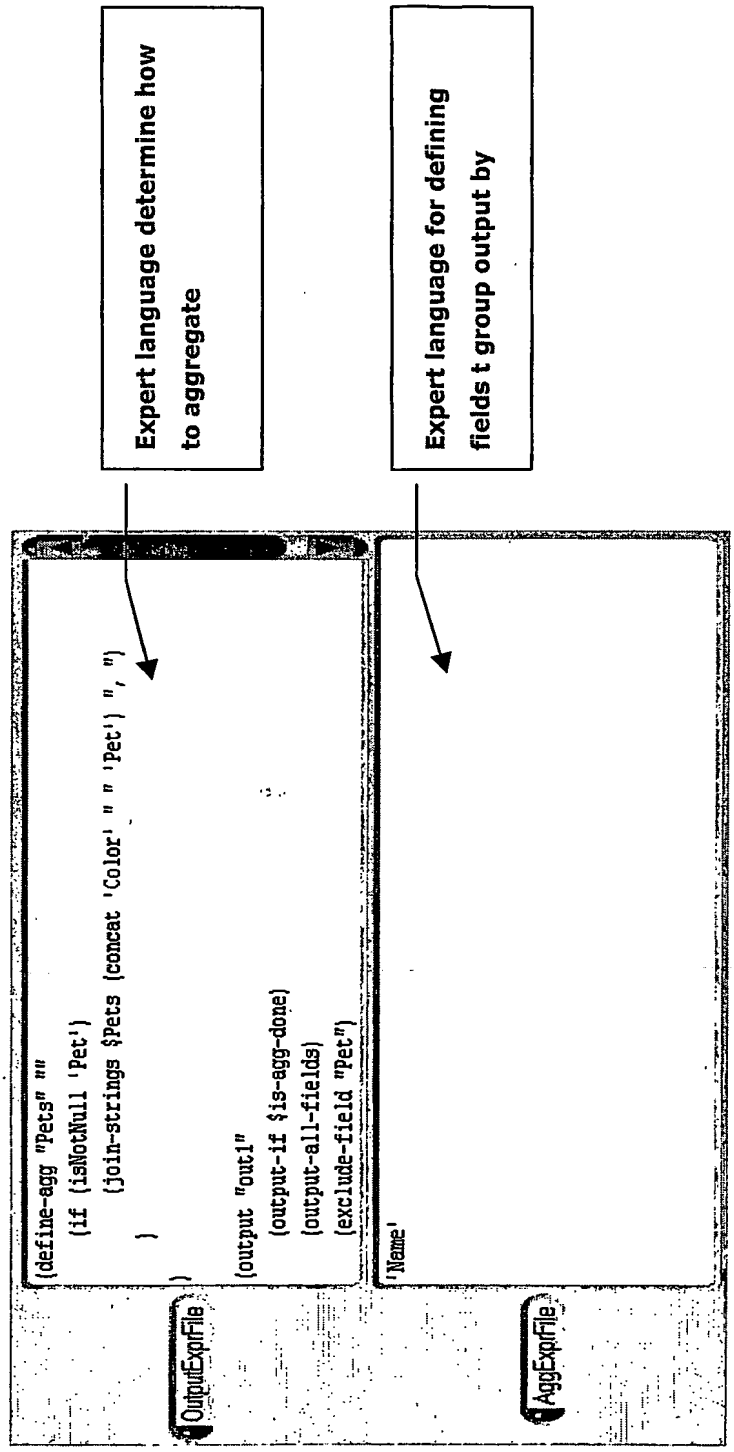

Expert language determine how to aggregate
Expert language for defining fields t group output by
(define-agg "Pets" ""
(if (isNotNull 'Pet')
(join-strings $Pets (concat 'Color' " " 'Pet') ", ")
)
)
(output "out1"
(output-if $is-agg-done)
(output-all-fields)
(exclude-field "Pet")
'Name'
OutputExprFile
AggExprFile

Fig. 26

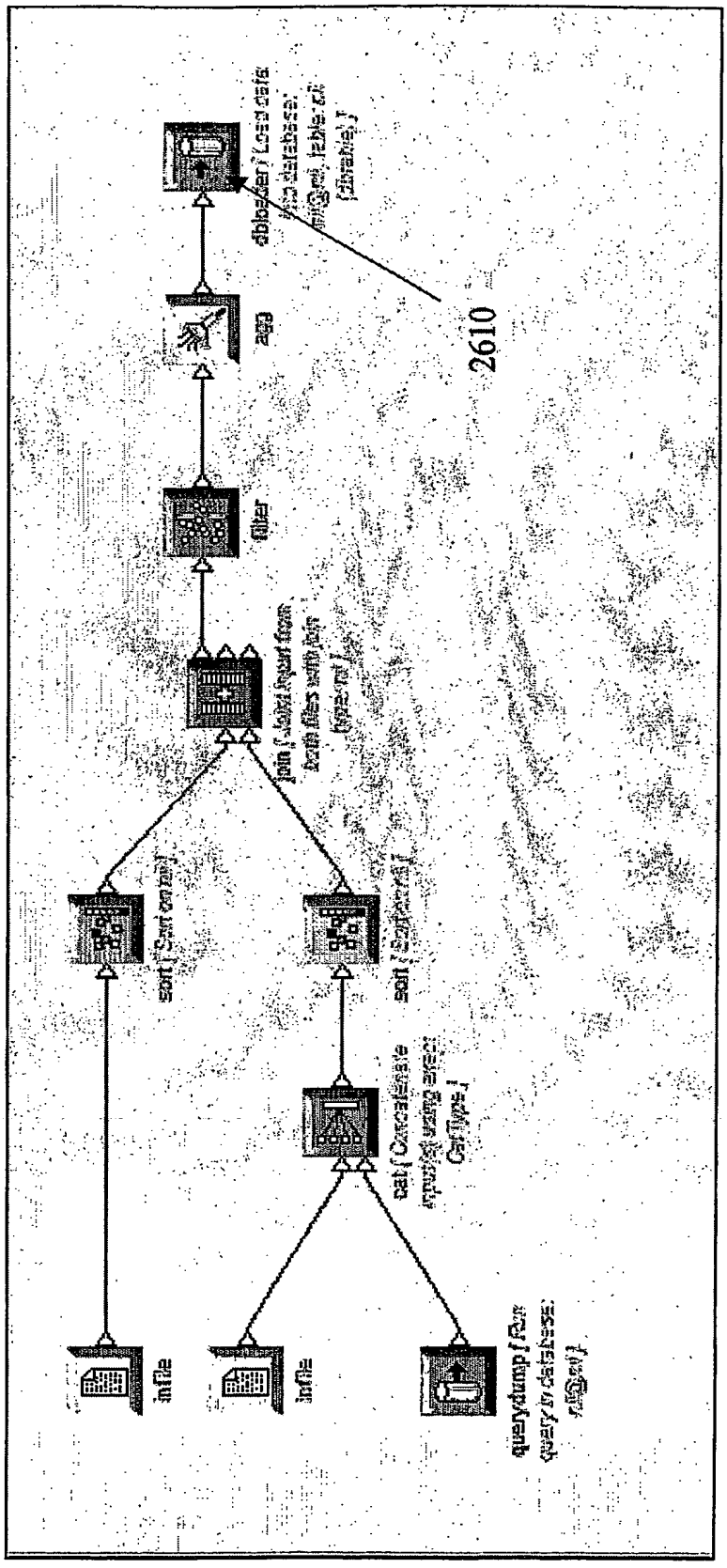
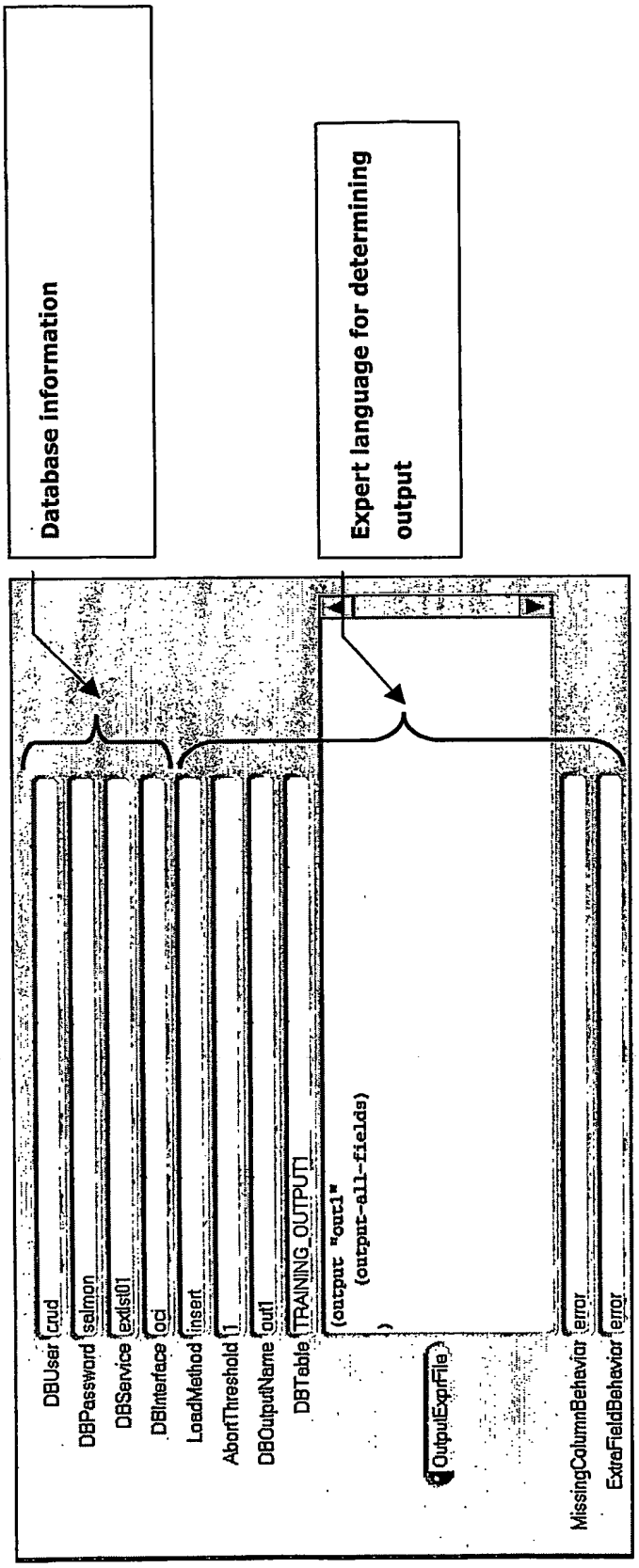


Fig. 27


Database information
Expert language for determining output
DBUser
DBPassword
DBService
DBInterface
LoadMethod
AbortThreshold
DBOutputName
DBTable
OutputExprFile
MissingColumnBehavior
ExtraFieldBehavior
crud
selmon
exlist01
oci
insert
1
out1
TRAINING_OUTPUT1
(output "out1"
(output-all-fields)
)
error
error